

ABSTRACT

5 A reduced size microstrip antenna which receives GPS data
and which is adapted for use on small diameter weapons systems
such as a missile or smart bomb. The microstrip antenna has a
center frequency of 1.575 GHz, a frequency bandwidth of twenty
megahertz and provides for right hand circular polarization.
The microstrip antenna includes a pair of quarter-wavelength
antennas which have a rectangular shape and are rotated ninety
degrees from one another, and a copper etched feed network
which provides for a signal phase shift of ninety degrees.